

Product datasheet for **RC600054**

LTK (NM_206961) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LTK (NM_206961) Human Tagged ORF Clone
Tag:	DDK-His
Symbol:	LTK
Synonyms:	TYK1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5-DDK-His (PS100068)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RC600054 representing leader sequence plus the extracellular domain region of NM_206961 Red=Cloning site Blue=ORF Green=Tags(s)

GTAATACGACTACTATAGGGCGCCGCGAATTTCGTCGACTGGATCTGGTACCGAGGAGATCCGCCGCCG
CGATCGCC

ATGGGCTGCTGGGGACAGCTGCTGGTGTGGTTCGGAGCCGCGGGCGCCATTCTCTGCTCTAGCCCGGGT
CCCAGGAGACTTTCTGCGGTCTCGCCCTGCCGCTGGCAAGTCCCAGCCCCGGGACCCGAAAGTCAG
CGCCCCGCTAGTATCTTGGAGCCAGCCTCCCCGCTGAATTCCTGGGCACCGAGGGTCTTGGCTGTT
TCTACCTGCGGGCCAGCGGCCGCATGGGCCACACAGACACAATGTGACGGGGCTACCGGGGACCA
GCGTGGTGGTGACCGTGGGGGCCCGGGCAGCTGAGAGGCGTGACGCTGTGGCGCGTGCCGGGCCCTGG
CCAGTATCTGATCTCAGCCTACGGAGCCGCGGGCGCAAAGGCGCCAAGAACCACCTGTCCGGGGCGCAT
GGCGTCTTCGTCTCAGCAATCTTCTCCCTCGGTCTCGGGGAGTCGCTGTACATCCTGGTGGGGCAGCAGG
GAGAGGACGCCTGTCCCGGAGGTAGCCCGGAGAGCCAGCTCGTCTGCCTCGGGGAGTCTCGAGCCGTTGA
AGAGCACGCGCGATGGATGGGAGCGAAGGGTCCCGGGTTCGCGGCGTGGCGGGAGGTGGCGGGGT
GGCGGGGGCGCCACCTACGTTTTCCGGGTGCGCGCTGGCAGCTGGAACCGTTGCTGGTGGCGGCCGGAG
GCGCGGTCGGGCTACCTGAGGCCGCGGAGCCGAGCCGACTCAGGCCTCCCCGAGAACTGGAGAA
CCGCTCGGAGGCCCGGGAGCGGGAGAGGGCGGGCGGAGGGGGCGGACGCTTCAGAGACTGACAAC
CTCTGGGCTGATGGGGAAGATGGAGTATCCTTCATACACCCAGCAGCGAGCTTCTCTGAGCCTCTGG
CAGTCACCGAGAACCACGGAGAGGTAGAGATCCGAAGGCACCTCAACTGCAGTCACTGCCCTTTGAGAGA
CTGCCAATGGCAGGCAGAGCTCCAGCTGGCTGAATGCCTGTGCCAGAAGGCATGGAGCTAGCTGTGGAT
AACGTCACCTGCATGGACCTGCACAAGCCCCAGGCCCT

ACGCGTTCAGGCGACTACAAGGATGACGACGATAAGGGATCTCATCATCACCATCACCATTAATGAGATC
TGGTACCGATATCAAGCTTGTGACTCTAGA



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Protein Sequence: >RC600054 representing signal peptide plus the extracellular domain region of NM_206961
 Red=Cloning sites Green= DDK and 6XHIS Tags

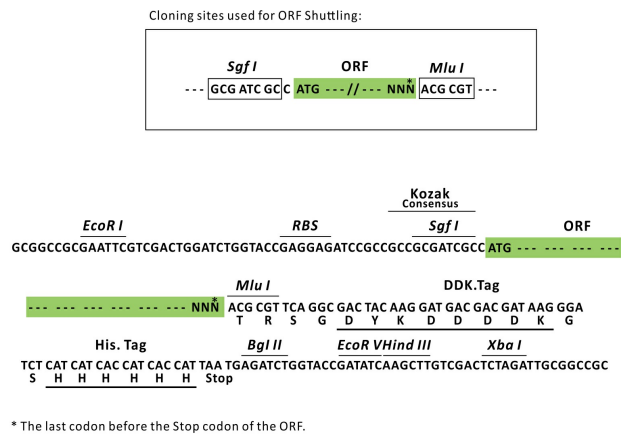
MGCWGQLLVWFGAAGAILCSSPGSQETFLRSSPLPLASPSRDPKVSAPPSILEPASPLNSPGTEGSWLF
 STCGASGRHGPTQTQCDGAYAGTSVVVTVGAAGQLRQVQLWRVPGPGQYLISAYGAAGGKGNHLSRAH
 GVFVSAIFSLGLGESLYILVGQGEDACPGGSPESQLVCLGESRAVEEHAAMDGSEGVPGSRRWAGGGGG
 GGGATYVFRVRAGELEPLLVAAGGGGRAYLRPRDRGRTQASPEKLENRSEAPGSGRGAAGDASETDN
 LWADGEDGVSFIHPSSFLQPLAVTENHGEVEIRRHLNCSHCPLRDCQWQAEQLAECLCEGMELAVD
 NVT CMDLHKPPGP

TRSGTRSGDYKDDDDKGSHHHHHH

Chromatograms: https://cdn.origene.com/chromatograms/mk8117_g07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_206961

ORF Size: 1089 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the extra cellular domain of the protein with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_206961.3](#), [NP_996844.1](#)

RefSeq Size: 2960 bp

RefSeq ORF: 2412 bp

Locus ID: 4058

UniProt ID: [P29376](#)

Cytogenetics: 15q15.1

Protein Families: Druggable Genome, Protein Kinase, Transmembrane

MW: 37.4 kDa

Gene Summary: The protein encoded by this gene is a member of the ros/insulin receptor family of tyrosine kinases. Tyrosine-specific phosphorylation of proteins is a key to the control of diverse pathways leading to cell growth and differentiation. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2008]